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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

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In re Application of:) Atty. Dkt. No. 03.09.17.1
Edward E. Miller)
Serial No. 10/789,207) Art Unit: 1713
Filing Date: 2/27/2004) Examiner: Robert D. Harlan
Title:) Duncan, Oklahoma 73534
)
**WATER CONTROL IN A)
SUBSURFACE FORMATION) Date: February 27, 2007**

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RESPONSE TO OFFICE ACTION

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Commissioner For Patents
P.O. Box 1450
Alexandria, Virginia 22313-1450

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Sir:

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This is in response to the Final Action mailed January 26, 2007.

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IN THE CLAIMS

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A. Please amend claim 1 as follows:

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1. A method of making a gel which is not water soluble comprised of making a water soluble polymer of an acrylic acid compound comprising:
combining an acrylic acid compound with a reactant selected from the group consisting of a divalent metal salt of said acrylic acid compound, a monovalent metal salt of said acrylic acid compound and mixtures thereof to form a polymer precursor,

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combining a polymerization initiator with said precursor [and],

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permitting said precursor to form said water soluble polymer[;], and

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combining said water soluble polymer with a cross linking agent to form said gel;

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wherein

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said polymer precursor contains in the range of from about 0.65 to about 2.75 units of